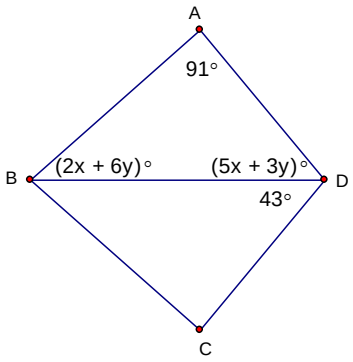
Geometry H
Triangle Proofs Quiz Review

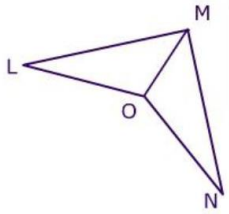
Name: _____
Date: _____ Period: _____

1. Given that $\Delta ABD \cong \Delta CBD$, please find the values of *x* and *y*.



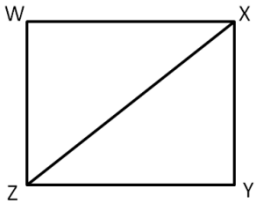
Complete the following proofs. Your proof may not require all the steps provided ☺

2. Given: $\overline{OM}$ bisects $\angle LMN$ and $\angle LOM \cong \angle NOM$
   Prove: $\Delta LMO \cong \Delta NMO$



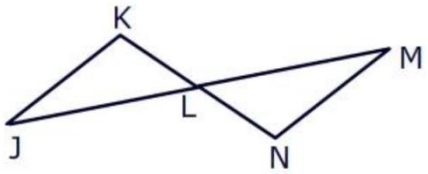
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

3. Given: : $\overline{WX} \cong \overline{YZ}$ and $\overline{WZ} \cong \overline{YX}$
   Prove: $\Delta ZWX \cong \Delta XYZ$



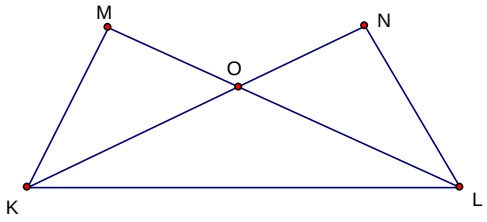
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

4. Given: $\overline{JK} \parallel \overline{MN}$ and L is the midpoint of $\overline{KN}$
   Prove: $\Delta JLK \cong \Delta MLN$



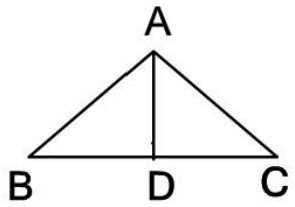
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

5. Given: $\overline{KM} \perp \overline{ML},\ \overline{LN} \perp \overline{KN}, \angle OKL \cong \angle OLK$
   Prove: $\Delta MKO \cong \Delta LNO$



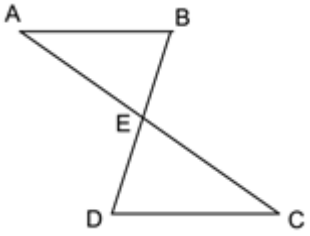
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

6. Given: $\overline{AD} \perp \overline{BC}$ and $\overline{BA} \cong \overline{CA}$
   Prove: $\Delta ADB \cong \Delta ADC$



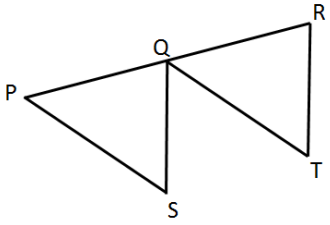
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

7. Given: $\overline{BD}$ bisects $\overline{AC}$, $\angle$BAE $\cong \angle$DCE
   Prove: ΔABE $\cong \Delta$CDE



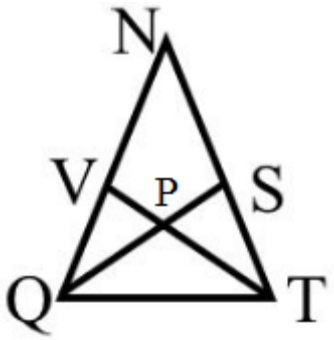
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

8. Given: Q is the midpoint of $\overline{PR}$, $\overline{PS} \cong \overline{QT}$ and $\overline{PS} \parallel \overline{QT}$
   Prove: ΔPSQ $\cong \Delta$QTR



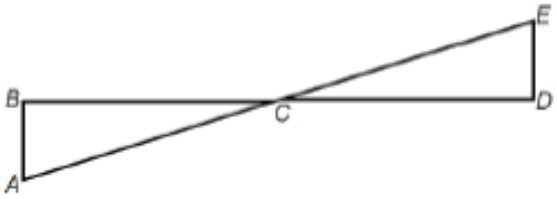
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.

9. Given: $\angle SQT \cong \angle VTQ, \overline{VP} \cong \overline{SP}$
   Prove: $\Delta VPQ \cong \Delta SPT$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.

10. Given: C is the midpoint of $\overline{BD}$
    $\overline{AB} \perp \overline{BD}$ and $\overline{BD} \perp \overline{DE}$
    Prove: $\Delta ABC \cong \Delta EDC$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.